WHAT IS CLAIMED IS:

An interface between a driving member and a driven member, the interface comprising:

a driving member having a polygonal length, said polygonal length having at least one surface selected from the group consisting of concave, convex and straight surfaces; and

a driven member having a matching polygonal length,

wherein a portion of one of the polygonal lengths is twisted along an axis of the length.

- 2. The interface of Claim 1 wherein the twist is from about 0° 10' to about 1°.
- 3. The interface of Claim 1 wherein the driven member comprises a shaft having a male polygonal length.
- 4. The interface of Claim 1, further comprising a second twist along the axis of the length, said second twist in a direction opposite the twisted portion.
- 5. The interface of Claim 1 wherein the driven member comprises a shaft having a male polygonal length with at least one portion of the length twisted from about 0° 20' to about 0° 50'.

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- 6. The interface of Claim 1 wherein one of the driving member and the driven member is straight.
- 7. The interface of Claim 1 wherein the polygonal length has a relative eccentricity of from about 1.5% to about 4%.
- 8. The interface of Claim 1 wherein the driven member comprises a shaft having a concave male polygonal length with a number of sides selected from the group consisting of 3 to 12.
- 9. A method of interfacing a driving member with a driven member, the method comprising:

providing a driving member having a polygonal length and a driven member with a matching polygonal length, wherein one of the driving member and the driven member has at least one portion of the length twisted from about 0° 10' to about 1° along an axis of the length; and

joining the driving member with the driven member.

- 10. The method of Claim 9 wherein the driven member comprises a shaft and the driven member comprises a flange.
- 11. The method of Claim 9 wherein the driven member comprises a shaft having a male polygonal length.

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- 13. The method of Claim 9 wherein the driving member and the driven member comprise one of a group consisting of a compressor, a pump, a machine tool, a mechanical drive, a generator, and a motor.
- 14. A coupling for an automotive drive shaft, the coupling comprising:

 a shaft having a polygonal length, said polygonal length selected from
 the group consisting of concave, convex and straight surfaces; and

a mounting device having a matching polygonal length, wherein one of the mounting device and the shaft has at least one portion of the polygonal length twisted from about 0° 10' to about 1°.

- 15. The coupling of Claim 14 wherein the mounting device comprises a flange.
- 16. The coupling of Claim 14 wherein the driven member comprises a male polygonal length with at least a portion of the length twisted from about 0° 20' to about 0° 50'.
- 17. The coupling of Claim 14 wherein the polygonal length has a relative eccentricity of from about 1.5% to about 4%.

- 18. The coupling of Claim 14, wherein one of the shaft and the mounting device are straight.
- 19. The coupling of Claim 14 wherein the driven member is a shaft having a concave male polygonal length with a number of sides selected from the group consisting of 3 to 12.
- 20. A coupling for transmitting rotational energy from a driving member to a driven member, the coupling comprising:
 - a driving member having a polygonal length; and
- a driven member having a matching polygonal length, wherein at least a portion of one of the members has a twist of from about 0° 10' to about 1°.
- 21. The coupling of claim 20 wherein the driving member is selected from the group consisting of an axle, a half axle and shaft.
- 22. The coupling of Claim 20 wherein the driven member has a male polygonal length including a twist from about 0° 20' to about 0° 50'.
- 23. The coupling of Claim 20 wherein the polygonal length has a relative eccentricity of from about 1.5% to about 4%.

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- 24. The coupling of Claim 20 wherein the driven member is a shaft having a concave male polygonal length with a number of sides selected from the group consisting of 3 to 12.
 - 25. The coupling of Claim 20 wherein one of the members is straight.
- 26. A method of manufacturing an axle pinion gear, the method comprising:

furnishing a forging;

rough machining the forging;

hobbing a gear at a first end of the shaft;

heat-treating the shaft; and

hardturning at least two journals and a polygonal length on the shaft, wherein the shaft is not ground and the concentricity between the journals and the polygonal length is at least .001 inches (0.0254 mm).

- 27. The method of Claim 26 wherein the polygonal length manufacturing by hard turning has a portion twisted from about 0° 10' to about 1°.
- 28. The method of Claim 26 further comprising rollforming threads on a second end of the shaft before the step of heat-treating.

29. The method of Claim 26 wherein components of the polygonal interface are hardturned to a relative eccentricity of from about 1.5% to about 4%.